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<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	Application Number	10/676,839
	Filing Date	9/30/2003
	First Named Inventor	Salih B. Gokturk
	Art Unit	3736
	Examiner Name	Not Yet Assigned
Total Number of Pages in This Submission	Attorney Docket Number	S01-264/US

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance communication to Technology Center (TC)
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<b>SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT</b>		
Firm or Individual name	Ron Jacobs Ph. D. Reg No. 50,142	
Signature		
Date	8-10-04	

CERTIFICATE OF TRANSMISSION/MAILING		
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.		
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This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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## In the United States Patent and Trademark Office

Application No.: 10/676,839  
Filed: 9/30/2003  
Title: Three-Dimensional Pattern Recognition Method to Detect Shapes in Medical Images  
Applicant(s): Salih B. Gokturk  
Examiner: Not Yet Assigned  
Art Unit: 3736

Mailed 8/10/04  
Palo Alto, CA

### Information Disclosure Statement

Commissioner of Patents and Trademarks  
Alexandria, VA 22313

Dear Sir or Madam:

Attached is a completed Form PTO-1449 and copies of the pertinent parts of the references cited thereon. It is requested that the document(s) on the enclosed form be made of record.

#### Part I (Authority)

This statement is filed pursuant to:

(X) 37 C.F.R. § 1.97(b).

This information disclosure statement is filed either (1) within three months of the filing date of the national applications; (2) within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application; or (3) before the mailing date of a first office action on the merits, whichever event occurs last.

Accordingly, this information disclosure statement requires no fee and no certification.

( ) 37 C.F.R. § 1.97(c).

This information disclosure statement is filed after the period specified in 37 C.F.R. § 1.97(b), but before the mailing date of either (1) a final action under 37 C.F.R. § 1.113 or (2) a notice of allowance under 37 C.F.R. § 1.311.

Accordingly, this information disclosure statement requires either the fee specified in 37 C.F.R. § 1.17(p) for submission of an information disclosure statement under 37 C.F.R. § 1.97(c) (\$180), or a certification according to 37 C.F.R. § 1.97(e).

( ) 37 C.F.R. § 1.97(d).

This information disclosure statement is filed after the period specified in 37 C.F.R. § 1.97(c).

Accordingly, this information disclosure statement requires the petition fee specified in 37 C.F.R. § 1.17(i)(1) to consider an information disclosure statement under 37 C.F.R. § 1.97(d) (\$180), a certification according to 37 C.F.R. § 1.97(e), and a petition requesting consideration of the information disclosure statement.

#### Conditional Petition

It is respectfully requested that this information disclosure statement be considered, good cause being presented in Part III herein (certification). Please treat this paper as the required petition.

If this statement crosses in the mail with an office action, or is otherwise not in the indicated category of 37 C.F.R. § 1.97, it is respectfully requested that this statement be treated in the next appropriate category and made of record.

To the extent required, please treat this paper as a conditional petition for acceptance of the information disclosure statement.

## Part II (Payment)

A check is enclosed as indicated:

- ☒ (X) No fee is due.
- ☐ ( ) The fee specified in 37 C.F.R. § 1.17(p) for submission of an information disclosure statement under 37 C.F.R. § 1.97(c) is enclosed (\$180).
- ☐ ( ) The petition fee specified in 37 C.F.R. § 1.17(i)(1) to consider an information disclosure statement under 37 C.F.R. § 1.97(d) is enclosed (\$180).

## Part III (Certification)

Pursuant to 37 C.F.R. § 1.97(e), I certify:

- ☒ (X) No certification is necessary.
- ☐ ( )
  - (1) Each item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the statement.
  - ☐ ( ) The "communication from a foreign patent office" referred to in the certification is an International Search Report, possibly issued by the U.S. Patent and Trademark Office in its capacity as an International Search Authority or International Preliminary Examining Authority.
  - ☐ ( ) The "counterpart foreign application" referred to in the certification corresponds to an ancestor or descendent application of the application for which this information disclosure statement is filed.
- ☐ ( ) (2) No item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c), more than three months prior to the filing of the statement.

## Part IV (Additional Statement)

An additional statement regarding these items of information ( ) is, (X) is not, enclosed.

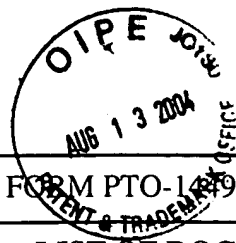
Copies of the cited documents ( ) are enclosed, (X) are of record in parent application Serial No. \_\_\_\_\_ and will be provided if the Examiner deems it convenient.

Dated: 8-10-04

Respectfully submitted,



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FORM PTO-1419 U.S. DEPARTMENT OF COMMERCE		ATTY. DOCKET NO. S01-264/US	SERIAL NO. 10/676,839
LIST OF DOCUMENTS CITED BY APPLICANT (Use several sheets if necessary)		APPLICANT Salih B Gokturk	
		FILING DATE 9/30/2003	GROUP 3736

### U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	RELEVANT INFORMATION
	A	6 3 3 1 1 1 6	12/18/2001	Kaufman et al	
	B	2002/0039400	04/04/2002	Kaufman et al	
	C	6 2 4 6 7 8 4	06/12/2001	Summer et al.	
	D	6 5 5 6 6 9 6	04/29/2003	Summer et al.	
	E	6 3 4 5 1 1 2	02/05/2002	Summers et al.	
	F	5 8 9 1 0 3 0	04/06/1999	Johnson et al.	
	G	6 0 8 3 1 6 2	07/04/2000	Vining	
	H	5 9 2 0 3 1 9	07/06/1999	Vining et al.	
	I	5 9 7 1 7 6 7	10/26/1999	Kaufman et al.	
	J	5 8 9 1 0 3 0	04/06/1999	Johnson et al.	
	K	5 4 9 1 6 2 7	02/13/1996	Zhang et al.	
	L	5 4 5 8 1 1 1	10/17/1995	Coin	
	M	20030161522	08/22/2003	Campanini et al.	
	N	20030172043	09/11/2003	Guyon et al.	

### FOREIGN PATENT DOCUMENTS

	2- letter code	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
					YES NO

### OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	O	D.S. Paik, et al. 1998, "Automated flight path planning for virtual endoscopy", Medical Physics <b>25</b> (5), 629-637
	P	J.G. Fletcher, et al., "Optimization of CT colonography technique: prospective trial in 180 patients," <i>Radiology</i> , vol. 216(3), pp. 704-711, 2000
	Q	J. Yee, et al., "The usefulness of glucagon hydrochloride for colonic distention in CT colonography," <i>Am J Roentgenol</i> , vol. 173(1), pp. 169-172, 1999
	R	Iordanescu et al., "Benefits of Centerline Analysis for CT Colonography Computer-Aided Polyp Detection", Medical Imaging, Proceedings of SPIE Vol. 5031 (2003), pp. 388-397
	S	D.S. Paik, et al. 1998, "Automated flight path planning for virtual endoscopy", Medical Physics <b>25</b> (5), 629-637
	T	J.G. Fletcher, et al., "Optimization of CT colonography technique: prospective trial in 180 patients," <i>Radiology</i> , vol. 216(3), pp. 704-711, 2000

	U	J. Yee, et al., "The usefulness of glucagon hydrochloride for colonic distention in CT colonography," <i>Am J Roentgenol</i> , vol. 173(1), pp. 169-172, 1999
	V	Wingo P.J., Cancer Statistics, <i>ca Cancer Journal Clin</i> , 1995; 45:8-30.
	W	Thoeni R.F., Laufer I. "Polyps and cancer," Textbook of Gastrointestinal Radiology, Philadelphia: W.B. Saunders, 1994; 1160
	X	Winawer S.J., Zauber A.G., Ho M.N., O'Brien M.J., Gottlieb L.S., Sternberg S.S., Waye J.D., et al. "Prevention of colorectal cancer by colonoscopic polypectomy," The national polyp study workgroup, <i>N. Engl. J. Med.</i> 1993; 329: 1977-1981
	Y	Jerebko et al. "Computer-aided polyp detection in CT colonography using an ensemble of support vector machines" International Congress Series 1256 (2003) pp. 1019-1024
	Z	K. Veropoulos et al. (1999) in a paper entitled "Controlling the sensitivity of support vector machines" and presented at the Int. Joint Conf. AI (IJCAI'99), Stockholm, Sweden
	AA	DM Eddy (1990) entitled "Screening for colorectal cancer" and published in <i>Ann. Intern Med.</i> , 113 373-384
	BB	RM Summers et al. (2000) entitled "Polypoid lesions of airways: early experience with computer-assisted detection by using virtual bronchoscopy and surface curvature" and published in <i>Radiology</i> 208 (2):331-337
	CC	Yoshida et al., (2000) in a paper entitled "Detection of colonic polyps in CT colonography based on geometric features" and published in <i>Radiology</i> 217 (SS):582-582
	DD	SB Gokturk & C Tomasi (2000) in a paper entitled "A graph method for the conservative detection of polyps in the colon" and published at the 2 <sup>nd</sup> International Symposium on Virtual Colonoscopy November 2000 Boston, USA
	EE	DS Paik et al. (2000) in a paper entitled "Computer aided of polyps in CT colonography: Free response roc evaluation of performance" and published in <i>Radiology</i> 217 (SS)370
	FF	DS Paik et al. (1999) in a paper entitled "Detection of polyps in CT colonography: A comparison of a computer aided detection algorithm to 3-D visualization methods" and published in <i>Radiology Society of North America 85<sup>th</sup> Scientific Sessions</i> . Chicago, IL: Radiology Soc. N. Amer. P. 428
	GG	MK Hu (1962) entitled "Visual pattern recognition by moment invariants" and published in <i>IRE transactions on information theory</i> IT-8:179-187
	HH	B Scholkopf (1997) in a book entitled "Support Vector Learning" and published by Munich, Germany; R. Oldenbourg Verlag.

**EXAMINER**

**DATE CONSIDERED**

\* **EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.